INTERNATIONAL SEARCH REPORT

International Application No
PCT/US2004/030986

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61K38/17 C07K14/47

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 A61K C07K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal, BIOSIS, MEDLINE, Sequence Search, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	AL-ZOUBI ADEEB M ET AL: "Contrasting effects of IG20 and its splice isoforms, MADD and DENN-SV, on tumor necrosis factor alpha-induced apoptosis and activation of caspase-8 and -3" JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 276, no. 50, 14 December 2001 (2001-12-14), pages 47202-47211, XP002317870 ISSN: 0021-9258 Discussion abstract ----- -/--	1-20

[X] Further documents are listed in the continuation of box C.

[ ] Patent family members are listed in annex.

° Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
16 February 2005	07/03/2005

Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk	

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US2004/030986

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EFIMOVA ELENA V ET AL: "Differential effects of IG20 and its splice isoform, DENN-SV, on cell proliferation and apoptosis" FASEB JOURNAL, vol. 16, no. 5, 22 March 2002 (2002-03-22), page A1083, XP009044048 & ANNUAL MEETING OF PROFESSIONAL RESEARCH SCIENTISTS ON EXPERIMENTAL BIOLOGY; NEW ORLEANS, LOUISIANA, USA; APRIL 20-24, 2002 ISSN: 0892-6638 abstract	1-20
X	SCHIEVELLA ANDREA R ET AL: "MADD, a novel death domain protein that interacts with the type 1 tumor necrosis factor receptor and activates mitogen-activated protein kinase" JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 272, no. 18, 1997, pages 12069-12075, XP002317872 ISSN: 0021-9258 abstract page 12069, right-hand column, paragraph 2	1-20
X	ZHANG Y ET AL: "A splicing variant of a death domain protein that is regulated by a mitogen-activated kinase is a substrate for c-Jun N-terminal kinase in the human central nervous system" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, NATIONAL ACADEMY OF SCIENCE. WASHINGTON, US, vol. 95, no. 5, 3 March 1998 (1998-03-03), pages 2586-2591, XP002214181 ISSN: 0027-8424 abstract page 2586, right-hand column, paragraph 3	1-20
A	HILGER R A ET AL: "THE RAS-RAF-MEK-ERK PATHWAY IN THE TREATMENT OF CANCER" ONKOLOGIE, KARGER, FREIBURG, DE, vol. 25, no. 6, December 2002 (2002-12), pages 511-518, XP009008407 ISSN: 0378-584X abstract	1-20

-/--

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US2004/030986

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	EFIMOVA ELENA V ET AL: "IG20, in contrast to DENN-SV, (MADD splice variants) suppresses tumor cell survival, and enhances their susceptibility to apoptosis and cancer drugs." ONCOGENE, vol. 23, no. 5, 5 February 2004 (2004-02-05), pages 1076-1087, XP002317873 ISSN: 0950-9232 abstract	1-20